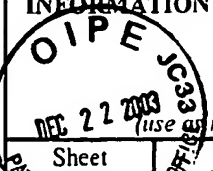



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		Filing Date	August 25, 2003
		First Name Inventor	Said Goueli
		Group Art Unit	1646
		Examiner Name	
Sheet 1 of 1	Attorney Docket Number	016026-9178 DIV	

U.S. PATENT DOCUMENTS				
Examiner Initials		U.S. Patent Document Number	Name of Patentee or Applicant of Cited Document	Date of Publication of Cited Document
<i>mm</i>	AA	5,358,934	BOROVSKY et al.	10/25/1994
	AB	5,453,354	AKERLOF et al.	9/26/1995
	AC	5,744,354	LOCKERBIE et al.	28 Apr 1998
	AD	6,011,013	CARR et al.	1/4/2000
<i>mm</i>	AE	6,011,015	VINSON et al.	1/4/2000

FOREIGN PATENT DOCUMENTS							
Examiner Initials		Country Code	Foreign Patent Document Number	Name of Patentee or Applicant of Cited Document	Date of Publication of Cited Document	Translation	English Abstract
<i>mm</i>	AF	WO	98/22122	PROMEGA CORP.	28 May 1999		
	AG	EP	511,600 A2	EBASHI	11 Apr 1992		
<i>mm</i>	AH	WO	96/16172	ICOS CORPORATION	30 May 1996		

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		First Named Inventor	Said Goueli
		Group Art Unit	1646
		Examiner Name	Unknown
		Attorney Docket Number	016026-9178 DIV

**OTHER PRIOR ART - NON PATENT LITERATURE DOCUMENTS**

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AI	AUSUBEL et al. eds., <u>Current Protocols in Molecular Biology</u> , Greene Pub., and Wiley Interscience, NY (1987) (with periodic updates).
AJ	BABCOCK, Donner F. et al., "Action of ionophore A23187 at the cellular level," <i>J. Biol. Chem.</i> , 251(13):3881-3886 (Jul. 10 1976).
AK	BARJA, P. et al., "Inhibition of T cell activation by protein kinase C pseudosubstrates," <i>Cellular Immunology</i> , 153: 28-38 (Jan. 1994).
AL	BEDFORD, J.M. & HOSKINS, D.D., <u>Marshall's Physiology of Reproduction</u> , Chap. 5 "The mammalian spermatozoon: morphology, biochemistry and physiology," Lammings, ed., 4th Ed., V. 2, p. 379, Churchill Livingstone, NY (1990).
AM	BOLLAG & EDELSTEIN, Eds., <u>Protein Methods</u> , Wiley-Liss, NY (1991)
AN	CARR, Daniel W. et al., "Interaction of the regulatory subunit (RII) of cAMP-dependent protein kinase with RII-anchoring proteins occurs through an amphipathic helix binding motif," <i>J. Biol. Chem.</i> , 266(22):14188-14192 (Aug. 5, 1991).
AO	CARR, Daniel W. et al., "Localization of the cAMP-dependent protein kinase to the postsynaptic densities by A-Kinase Anchoring Proteins," <i>J. Biol. Chem.</i> , 267(24):16816-16823 (Aug. 25, 1992).
AP	CARR, Daniel W. et al., "Association of the type II cAMP-dependent protein kinase with a human thyroid RII-anchoring protein," <i>J. Biol. Chem.</i> 267(19):13376-13382 (Jul. 5, 1992).
AQ	CARR, Daniel W. et al., "Follicle-stimulating hormone regulation of A-kinase anchoring proteins in granulosa cells," <i>J. Biol. Chem.</i> 268: 20729-20732 (Oct. 1993).

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Sheet 2	of 11		

**OTHER PRIOR ART - NON PATENT LITERATURE DOCUMENTS**

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mm	AR	CARR, Daniel W. & ACOTT, Ted S., "The phosphorylation of a putative sperm microtubule-associated protein 2(MAP2) is uniquely sensitive to regulation," <i>Biol. of Reproduc.</i> , 43:795-805 (1990).
	AS	CARR, Daniel W. & SCOTT, J.D., "Blotting and band-shifting: techniques for studying protein-protein interactions," <i>Trends Biochem. Sci.</i> , 17:246-249 (July 1992).
	AT	CARRERA, Alfonso et al., "The major fibrous sheath polypeptide of mouse sperm: Structural and functional similarities to the A-kinase anchoring proteins," <i>Dev. Biol.</i> , 165:272-284 (1994).
	AU	CARRERA, Alfonso et al., "Regulation of Protein Tyrosine Phosphorylation in human sperm by a calcium/calmodulin-dependent mechanism: Identification of a kinase anchor proteins as major substrates for tyrosine phosphorylation," <i>Dev. Biol.</i> , 180: 284-296 (1996).
	AV	CHEN, Qian et al., "Organelle-specific targeting of protein kinase AII (PKAII), <i>J. Biolog. Chem.</i> , 272(24):15247-15257 (June 13, 1997).
	AW	COGHLAN, Vincent M. et al., "Cloning and characterization of AKAP 95, a nuclear protein that associates with the regulatory subunit of Type II cAMP-dependent protein kinase," <i>J. Biol. Chem.</i> , 269(10):7658-7665 (1994).
	AX	COSSON, Marie Paule., et al., "Protease inhibitors and substrates block motility and microtubule sliding of sea urchin and carp spermatozoa," <i>Cell. Motil. Cytoskeleton</i> 10(4):518-527 (1988).
	AY	DE CAMILLI, P. et al., "Heterogeneous distribution of the cAMP receptor protein RII in the nervous system: Evidence for its intracellular accumulation on microtubules, microtubule-organizing centers, and in the area of the Golgi Complex," <i>J. Cell. Biol.</i> , 103:189-203 (Jul. 1986).
mm	AZ	DEL'ACQUA et al., "Protein kinase A anchoring," <i>J. Biol. Chem.</i> , 272(20):12881-12884 (1997).

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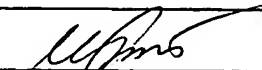
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mm	BA	DEVADAS, Balekudru et al., "Substrate specificity of <i>Saccharomyces cerevisiae</i> myristoyl-CoA: Protein N-myristoyltransferase," <i>J. Biol. Chem.</i> , 267(11):7224-7239 (1992).
	BB	EICHHOLTZ, Thomas et al., "A myristoylated pseudosubstrate peptide, a novel protein kinase C inhibitor," <i>J. Biol. Chem.</i> , 268(3):1982-1986 (1993).
	BC	EICHLER, J. et al., "Peptide, peptidomimetic, and organic synthetic combinatorial libraries," <i>Med. Res. Rev.</i> , 15(6):481-496 (Nov. 1995).
	BD	EISENBERG, David et al., "The hydrophobic moment detects periodicity in protein hydrophobicity," <i>Proc. Natl. Acad. Sci. USA</i> , 81:140-144 (Jan. 1984).
	BE	FENICHEL, Patrick et al., "Stimulation of human sperm during capacitation in vitro by an adenosine agonist with specificity for A2 receptors," <i>Biol. Reproduc.</i> , 54(6): 1405-1411 (1996).
	BF	GARBERS & KOPF, "Regulation of spermatozoa," <i>Advances in Cyclic Nucleotide Research</i> , Greengard & Robinson, eds., 13:252-306, Raven Press, NY (1980).
	BG	GARBERS, David L. et al., "Regulation of spermatozoan cyclic nucleotide metabolism by egg factors," <i>Advances in Cyclic Nucleotide Res.</i> , 9:583-595 (1978).
	BH	GARBERS, David L. et al., "The stimulation of bovine epididymal sperm metabolism by cyclic nucleotide phosphodiesterase inhibitors," <i>Abstracts of Soc. of Biol. Reprod.</i> , 7:132 (1972).
mm	BI	GOODMAN, GILMAN, et al., eds., <u>The Pharmacological Basis of Therapeutics</u> , Macmillan, NY (1994).

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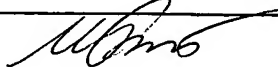
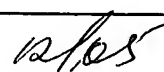
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		Filing Date	August 25, 2003
		First Named Inventor	Said Goueli
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		Examiner Name	Unknown
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mm	BJ	GOUELI, Basem S. et al., "A novel and simple method to assay the activity of individual protein kinases in a crude tissue extract," <i>Analytical Biochem.</i> , 225:10-17 (1995).
	BK	HAN, Jing-Dong et al., "Molecular characterization of a novel A kinase anchor protein from <i>Drosophila melanogaster</i> ," <i>J. Biol. Chem.</i> , 272(42):26611-26619 (Oct. 17, 1997).
	BL	HAUSKEN, Zachary E. et al., "Type II regulatory subunit (RII) of the cAMP-dependent protein kinase interaction with A-kinase anchor proteins requires isoleucines 3 and 5," <i>J. Biol. Chem.</i> , 269(3):24245-24251 (Sep. 30, 1994).
	BM	HOROWITZ, Jill A. et al., "Interaction of the regulatory subunit of a Type II cAMP-dependent protein kinase with mammalian sperm flagellum," <i>J. Biol. Chem.</i> , 263(4):2098-2104 (Feb. 5, 1988).
	BN	HOSKINS, D.D. et al., "Induction of motility in immature bovine spermatozoa by cyclic AMP phosphodiesterase inhibitors and seminal plasma," <i>Biology of Reprod.</i> , 13:168-176 (1975).
	BO	HOSKINS, Dale D., "Adenine nucleotide mediation of fructolysis and motility in bovine epididymal spermatozoa," <i>J. Biol. Chem.</i> , 248(4):1135-1140 (Feb. 25, 1973).
	BP	HOSKINS, D.D. et al., "Cyclic adenosine 3':5'-monophosphate and protein kinase levels in developing bovine spermatozoa," <i>J. Reprod. Fertil.</i> , 37:131-133 (1974).
	BQ	HUANG, Lily Jun-shen et al., "Identification of a novel protein kinase A anchoring protein that binds both Type I and Type II regulatory subunits," <i>J. Biol. Chem.</i> , 272(12):8057-8064 (March 21, 1997).
mm	BR	HUANG, Lily Jun-shen et al., "D-AKAP2, a novel protein kinase A anchoring protein with a putative RGS domain," <i>Proc. Nat'l. Acad. Sci. USA</i> , 94:11184-11189 (Oct. 1997).

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		Filing Date	August 25, 2003
		First Named Inventor	Said Goueli
		Group Art Unit	1646
		Examiner Name	Unknown
		Attorney Docket Number	016026-9178 DIV
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MM	BS	HUBBARD, Michael J. & COHEN, Philip, "On target with a new mechanism for the regulation of protein phosphorylation," <i>Trends Biochem. Sci.</i> , 18:172-177 (1993).
	BT	JOHNSON, Barry D. et al., "Voltage-dependent potentiation of L-type Ca <sup>2+</sup> channels in skeletal muscle cells requires anchored cAMP-dependent protein kinase," <i>Proc. Nat'l Acad. Sci USA</i> , 91:11492-11496 (Nov. 1994).
	BU	KLAUCK, Theresa M. et al., "Coordination of three signaling enzymes by AKAP79, a mammalian scaffold protein," <i>Science</i> , 271:1589-1592 (Mar. 15, 1996).
	BV	KOPF, Gregory S. & GERTON, George L., <i>Elements of mammalian fertilization</i> , Wassermann, ed., V.1, Chap. 7, "The mammalian sperm acrosome and the acrosome reaction," 153-203, CRC Press, Boca Raton, FL (1991).
	BW	LEE, Michael A. & STOREY, Bayard T., "Bicarbonate is essential for fertilization of mouse eggs: Mouse sperm require it to undergo the acrosome reaction," <i>Biol. of Reprod.</i> , 34:349-356 (1986).
	BX	LEHNINGER, Albert L., <i>Principles of Biochemistry</i> , Worth Publishers, Inc., p. 101 of Chap. 5 "Amino Acids and Peptides"(1982).
	BY	LEUSEN et al., "Inhibition of neutrophil nadph oxidase assembly by myristoylated inhibitor peptides...", Keystone Sympos. on Phosphorlation/Dephoshor. in signal transduct, Keystone CO USA, pp.17-24 (Jan. 1993)., <i>J. Cell Biochem. Supp. O</i> (17 part A).
	BZ	LEWIN, <i>Genes V</i> , Oxford University Press, NY (1994) (definitions ref tool).
MM	CA	LI, Ying & RUBIN, Charles S., "Mutagenesis of the regulatory subunit (RII $\delta$ ) of cAMP-dependent protein kinase IId reveals hydrophobic amino acids that are essential for RII $\delta$ dimerization and/or anchoring RII $\delta$ to the cytoskeleton," <i>J. Biol. Chem.</i> , 270(4):1935-1944 (Jan. 27, 1995).

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		Group Art Unit	1646
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Sheet 6 of 11			

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mm	CB	LIEBERMAN, S.J. et al., "Immunogold localization of the regulatory subunit of a Type II cAMP-dependent protein kinase tightly associated with mammalian sperm flagella," <i>J. Cell Biol.</i> 107:1809-1816 (Nov. 1988).
	CC	LIN, Reigh-Yi et al., "Characterization of S-AKAP84, a novel developmental regulated A kinase anchor protein of male germ cells," <i>J. Biol. Chem.</i> , 270(46):27804-27811 (Nov. 17, 1995).
	CD	LINDEMANN, C.B. & KANOUS, K.S., "Regulation of mammalian sperm motility," <i>Archives of Andrology</i> , 23:1-22 (1989).
	CE	LIOTTA, Anthony S. et al., "A synthetic tris-sulfotyrosyl dodecapeptide analogue of the insulin receptor 1146-kinase domain inhibits tyrosine dephosphorylation of the insulin receptor in situ," <i>J. Biol. Chem.</i> 269(37):22996-23001 (Sep. 16, 1994).
	CF	LUO, Zhijun et al., "Identification of the MAP2- and P75-binding domain in the regulatory subunit (RIIb) of Type II cAMP-dependent protein kinase," <i>J. Biol. Chem.</i> , 265(35):21804-21810 (Dec. 15, 1990).
	CG	MERRIFIELD, R.B., "Solid phase peptide synthesis; I. The synthesis of a tetrapeptide," <i>J. Chem. Co.</i> , 85:2149-2156 (Jul. 20, 1963).
	CH	MC CARTNEY, Shirley et al., "Cloning and characterization of A-kinase anchor protein 100 (AKAP100)," <i>J. Biol. Chem.</i> 270(16):9327-9333 (Apr. 21, 1995).
	CI	MOCHLY-ROSEN, Daria, "Localization of protein kinases by anchoring proteins: A theme in signal transduction," <i>Science</i> , 268:247-251 (Apr. 14, 1995).
mm	CJ	MUNSON, et al., ed., <u>Principles of Pharmacology</u> , Champman & Hall, NY (1995). (ref tool)

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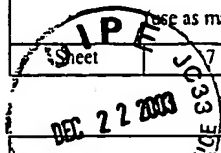
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mm	CK	NEWLON, Marceen G. et al., "The A-kinase anchoring domain of Type II cAMP-dependent protein kinase is highly helical," <i>J. Biol. Chem.</i> 272(38):23637-23644 (Sep. 19, 1997).
	CL	NOLAND, Thomas D. et al., "Protein phosphorylation in intact bovine epididymal spermatozoa; Identification of the Type II regulatory subunit of cyclic adenosine 3',5'-monophosphate-dependent protein kinase as an endogenous phosphoprotein," <i>Biology of Reprod.</i> , 37:171-180 (1987).
	CM	O'BRIAN, Catherine A. et al., "N-myristyl-Lys-Arg-Thr-Leu-Arg: A novel protein kinase C inhibitor," <i>Biochem. Pharmacol.</i> , 39(1):49-57 (1990).
	CN	OKAMURA, Naomichi et al., "Sodium bicarbonate in seminal plasma stimulates the motility of mammalian spermatozoa through direct activation of adenylate cyclase," <i>J. Biol. Chem.</i> , 260(17):9699-9705 (Aug. 15, 1985).
	CO	PARISET, Claude & WEINMAN, Serge, "Differential localization of two isoforms of the regulatory subunit RII $\beta$ of cAMP-dependent protein kinase in human sperm: Biochemical and cytochemical study," <i>Molecular Reprod. &amp; Dev.</i> , 39:415-422 (1994).
	CP	PAUPARD, Marie-Christine et al., "Major 56,000-Dalton, soluble phosphoprotein present in bovine sperm is the regulatory subunit of a Type II cAMP-dependent protein kinase," <i>J. Cell Biochem.</i> , 37:161-175 (1988).
	CQ	REMINGTON'S PHARMACEUTICAL SCIENCES, Mack Publ. Co., Easton, PA, latest edition.
	CR	RIEGER et al., <u>Glossary of Genetics: Classical and Molecular</u> , 5 <sup>th</sup> ed., Springer-Verlag: NY (1991) (ref tool, definitions).
mm	CS	ROSENMUND, Christian et al., "Anchoring of protein kinase A is required for modulation of AMPA/kainate receptors on hippocampal neurons," <i>Nature</i> , 368:853-856 (Apr. 28, 1994).

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		First Named Inventor	Said Goueli
		Group Art Unit	1646
		Examiner Name	Unknown
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CT	RUBIN, Charles S., "A kinase anchor proteins and the intracellular targeting of signals carried by cyclic AMP," <i>Biochemica et Biophysica Acta</i> , 1224:467-479 (1994).
CU	SAMBROOK et al., ed., <u>Molecular Cloning: A Laboratory Manual</u> , 2d ed., v. 1-3, Cold Spring Harbor Laboratory Press, Cold Spring Harbor, NY (1989). (ref tool).
CV	SAN AGUSTIN, Jovenal T. & WITMAN, George B., "Role of cAMP in the reactivation of demembrated ram spermatozoa," <i>Cell Motility &amp; the Cytoskeleton</i> , 27:206-218 (1994).
CW	SATIR, Peter, "Switching mechanisms in the control of ciliary motility," <i>Modern Cell. Biol.</i> , 4:1-46 (1985).
CX	SCOTT, John D. et al., "Type II regulatory subunit dimerization determines the subcellular localization of the cAMP dependent protein kinase," <i>J. Biol. Chem.</i> , 265(35):21561-21566 (Dec. 15, 1990).
CY	SCOTT, John D. & CARR, Daniel W., "Subcellular localization of the Type II cAMP-dependent protein kinase," <i>News in Physiol. Sci.</i> , 7:143-148 (Aug. 1992).
CZ	SHAW, Chris, "Peptide purification by reverse-phase HPLC," <i>Methods in Molecular Biology</i> , 32:275-287 (1994).
DA	SI, Y., et al., "Hyperactivated motility of mammalian sperm," <i>Mol. Androl.</i> , 8(3,4):235-259 (1996).
DB	SMITH, Gary D. et al., "Primate sperm contain protein phosphatase 1, a biochemical mediator of motility," <i>Biol. Reprod.</i> , 54:719-727 (1996).

Examiner Signature		Date Considered	
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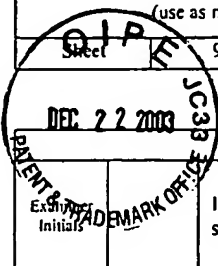
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		Filing Date	August 25, 2003
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		Group Art Unit	1646
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my	DC	STEPHENS, Donald T. et al., "Description, validation, and performance characteristics of a new computer-automated sperm motility analysis system," <i>Biology of Reprod.</i> , 38:577-586 (1988).
	DD	SCHRAMM, Hans J. et al., "The inhibition of human immunodeficiency virus proteases by interface peptides," <i>Antiviral Research</i> , 30:155-170 (1996).
	DE	TASH, Joseph S. et al., "Flagellar motility requires the cAMP-dependent phosphorylation of a heat-stable NP-40-soluble 56 kd protein, Axokinin," <i>Cell</i> , 38:551-559 (1984).
	DF	TASH, Joseph S. & BRACHO, Geracimo E., "Regulation of sperm motility: Emerging evidence for a major role for protein phosphatases," <i>J. Andrology</i> , 15(6):505-509 (Nov./Dec. 1994).
	DG	TASH, Joseph S. & MEANS, Anthony R., "cAMP-dependent regulatory processes in the acquisition and control of sperm flagellar movement," <i>Prog. Clin. Biol. Res.</i> , 267:335-355 (1988).
	DH	TASH, Joseph S., "Protein phosphorylation: The second messenger signal transducer of flagellar motility," <i>Cell Motility and the Cytoskel.</i> , 14(3):332-339 (1989).
	DI	TASH, JS, et al., "Axokinin phosphorylation by cAMP-dependent protein kinase is sufficient for activation of sperm flagellar motility," <i>J. Cell Biol.</i> , 103(2):649-655 (Aug. 1986).
	DJ	TOWLER, Dwight et al., "Protein fatty acid acylation: Enzymatic synthesis of an N-myristoylglycyl peptide," <i>Proc. Natl. Acad. Sci.</i> , 83:2812-2816 (May 1986).
mw	DK	VIJAYARAGHAVAN, Srinivasan et al., "Sperm motility development in the epididymis is associated with decreased glycogen synthase kinase-3 and protein phosphatase 1 activity," <i>Biology of Reprod.</i> , 54:709-718 (1996).

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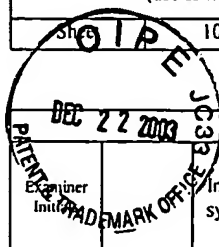
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		Filing Date	August 25, 2003
		First Named Inventor	Said Goueli
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		Examiner Name	Unknown
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DL	VIJAYARAGHAVAN, Srinivasan et al., "Evidence against a functional ATP-dependent calcium extrusion mechanism in bovine epididymal sperm," <i>Molecular. Reprod. &amp; Dev.</i> , 38:326-333 (1994).
DM	VIJAYARAGHAVAN, S. & HOSKINS, D.D., "Changes in the mitochondrial calcium influx and efflux properties are responsible for the decline in sperm calcium during epididymal maturation," <i>Molecular. Reprod. &amp; Dev.</i> , 25:186-194 (1990).
DN	VIJAYARAGHAVAN, Srinivasan et al., "Calcium uptake by bovine epididymal spermatozoa is regulated by the redox state of the mitochondrial pyridine nucleotides," <i>Biology of Reprod.</i> , 40:744-751 (1989).
DO	VIJAYARAGHAVAN, S. & HOSKINS, D., "Quantitation of bovine sperm cytoplasmic calcium with Quin-2 and Fura-2: Evidence that external calcium does not have direct access to the sperm cytoplasm," <i>Cell Calcium</i> , 10:241-253 (1989).
DP	VIJAYARAGHAVAN, S. et al., "Evidence for a role for cellular alkalization in the cyclic adenosine 3',5'-monophosphate-mediated initiation of motility in bovine caput spermatozoa," <i>Biology of Reprod.</i> , 32:489-500 (1985).
DQ	VIJAYARAGHAVAN, Srinivasan & HOSKINS, Dale D., "Forskolin stimulates bovine epididymal sperm motility and cyclic AMP levels," <i>J. Cyclic Nucleotide Protein Phosphoryla. Res.</i> , 10(5):499-510 (1985).
DR	VIJAYARAGHAVAN, Srinivasan & HOSKINS, Dale D., "Regulation of bovine sperm motility and cyclic adenosine 3',5'-monophosphate by adenosine and its analogues," <i>Biology of Reprod.</i> , 34:468-477 (1986).
DS	WILLIAMS, R.E. et al., "Minimum structural requirements of myristoylated protein kinase C(PKC) inhibitory peptides: Minimizing the structure of a MARCKS protein derived peptide," <i>Peptides, Proc. Eur. Pept. Symp.</i> , Leiden, Netherlands, p. 662-663
	ZALIANI, Andrea et al., "Rational design of a new C-myristylamido peptide exerting potent and selective PKC inhibitory activity," <i>Drug Design and Discovery</i> , 23:63-74 (1996).

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ms.	DT	ZALIANI, Andrea et al., "Rational design of a new C-myristylamido peptide exerting potent and selective PKC inhibitory activity," Drug Design and Discovery, 13: 63-74 (1996).	

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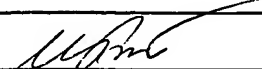
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				Filing Date	August 25, 2003
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				Examiner Name	Unknown
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mw	DU	HIRSCH, <i>et al.</i> , "Cloning and Expression of an Intron-less Gene for AKAP 75, an Anchor Protein for the Regulatory Subunit of cAMP-dependent Protein Kinase II $\beta$ " <i>J. Biol. Chem.</i> , (1992) 267(4):2131-2134.

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